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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,272	07/03/2003	Mark J. Mamula	102321-201	4375
²⁷²⁶⁷ WIGGIN AND	7590 08/18/200 DANA LLP	EXAMINER		
ATTENTION:	PATENT DOCKETIN	CANELLA, KAREN A		
	.Y TOWER, P.O. BOX , CT 06508-1832	. 1832	ART UNIT	PAPER NUMBER
•	•		1643	
			MAIL DATE	DELIVERY MODE
			08/18/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)	
		10/613,272	MAMULA, MARK J.	
		Examiner	Art Unit	
		Karen A. Canella	1643	
۔ Period foı	- The MAILING DATE of this communication app · Reply	ears on the cover sheet with the c	orrespondence address	
A SHC WHICI - Extens after S - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, piply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)□ 3)□ 3	Responsive to communication(s) filed on <u>04 Ma</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositio	on of Claims			
5)⊠ (6)⊠ (7)⊠ (8)□ (Applicatio 9)□ T 10)□ T	Claim(s) 1,2,4,5,10,19-22 and 25 is/are pendines) Of the above claim(s) is/are withdraw Claim(s) 1,2,4,5 and 10 is/are allowed. Claim(s) 19, 21, 25 is/are rejected. Claim(s) 20 and 22 is/are objected to. Claim(s) are subject to restriction and/or are subject to restriction and/or are specification is objected to by the Examines of the drawing(s) filed on is/are: a) access a constant may not request that any objection to the or are specification is objected to by the Examines of the order of the or	wn from consideration. r election requirement. r. epted or b) □ objected to by the B drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).	
Priority u	nder 35 U.S.C. § 119			
12)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureause the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) Notice 3) Inform	s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	

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DETAILED ACTION

Claims 11-14, 17, 18, 26 and 28 have been canceled. Claims 1, 2, 4, 5, 10, 19-22 and 25 are pending and under consideration.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 19, 21 and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Witter (U.S. 5,565,202) as evidenced by Gene Bank Accession No. BAA32580, November 9, 2007.

Claim 19 is drawn in part to providing a viral protein or a fragment thereof to a patient, wherein said viral protein or fragment thereof comprises an aspartic acid residue which has been treated to form an isoaspartic acid residue. Claim 21 embodies the method of claim 19 wherein said treating step comprises exposing said viral protein or fragment thereof to between 1 and 20% carbon dioxide. Claim 25 embodies the method of claim 19 wherein said aspartic acid residue forms part of an amino acid sequence selected from a group iclduing Asn-Gly, Asn-Ser, and Asp-Gly.

Witter discloses a method wherein cellsinfected with a MDF serotype 2 virus strain are passaged in cell culture under 5% carbon dioxide (column 3, lines 44-50). Witter discloses that immunization of chickens at 1 day of age, including chicks positive with maternal antibodies against MD (column 7, lines 5-7). Witter discloses that the vaccine provides protective efficacy against Marek's disease in chcikens (column 7, lines 50-66).

GeneBank Accession Number BAA32580 provides evidence that glycoprotein C of Marek's Disease Serotype 2 comprises Asn-Gly at residues 204-205, Asn-Ser at residues 303-304, and Asp-Gly at residues 281-282 and residues 347-348. Thus it would be inherent in the method of Witter that Glygoprotein C or another protein assoicated with Marek's Disease serotype 2 would comprise an isoaspartyl residue because the viral proteins contain numerous sites which are suseceptible to conversion to isoaspartyl residues and because the culture conditions were carried out under 5% carbon dioxide which was the same as that claimed. witter

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discloses that the passaged virus lost the ability to cause underied lymphoid leukosis in chickens, however this attenuation is directed toward pathogenicity and has no nexus to the immunogenicity of the administrated viral proteins.

All other rejections and objections as set forth or maintained in the prior Office action are withdrawn in light of applicant's amendments.

Claims 1, 2, 4, 5, 10 are allowed.

Claims 20 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Canella whose telephone number is (571)272-0828. The examiner can normally be reached on 10-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on (571)272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Karen A Canella/

Primary Examiner, Art Unit 1643